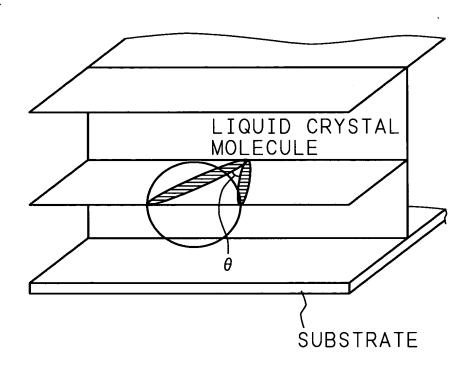
LIQUID CRYSTAL DISPLAY DEVICE Nov 25, 2003 Yoshihara et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1100.68757 Sheet 1 of 18 (312) 360 0080

FIG. 1 PRIOR ART



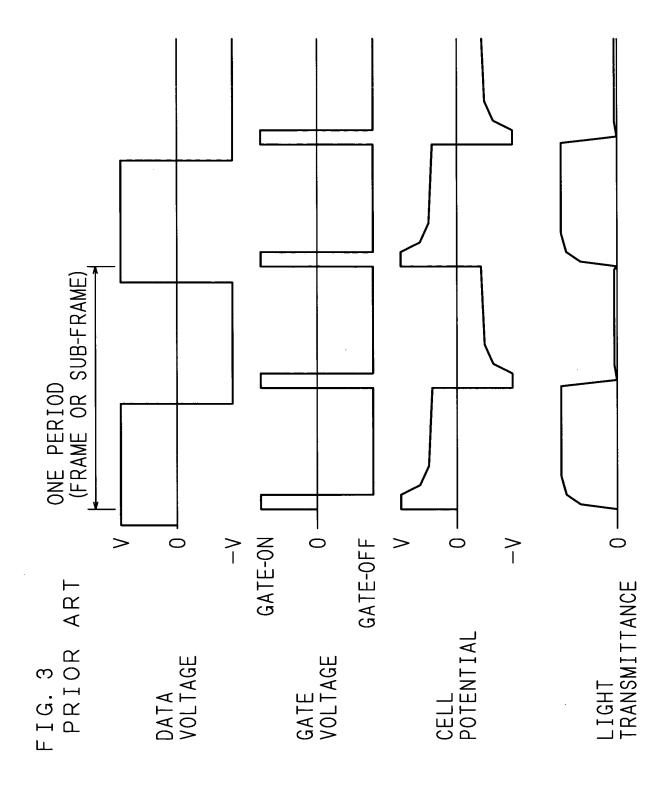
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Greer, Burns & Crain, Ltd. (Patrick Burns)
Ref. No. 1100.68757
Sheet 2 of 18 (312) 360 0080

- DATA WRITING SCANNING - DATA ERASING SCANNING  $_{\Omega}$  $\simeq$ FRAME (≤1/60s) മ SUB-FRAME (≤1/180s) G  $\alpha$ LAST LINE (a) SCANNING OF LIQUID CRYSTAL PANEL ART IG. 2 PRIOR ட

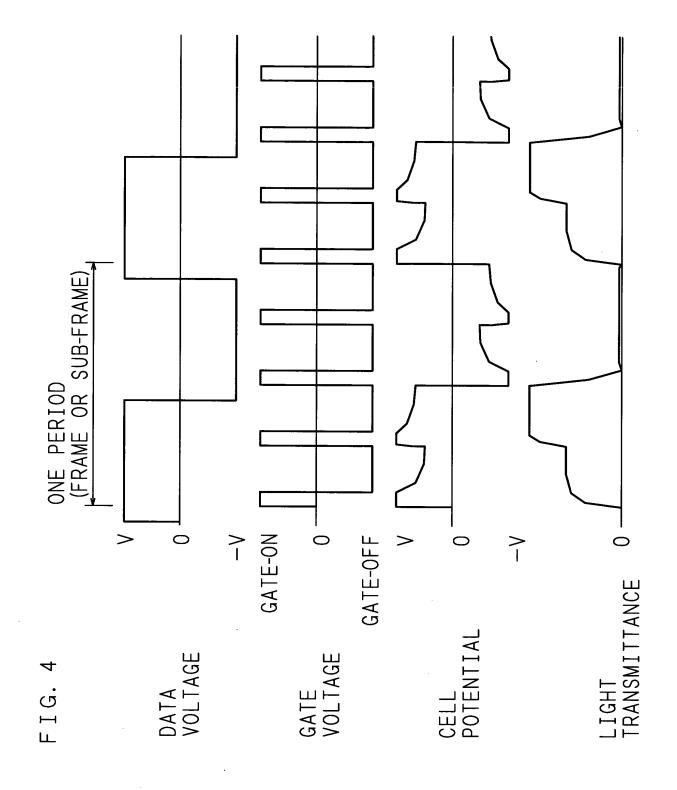
 $\mathbf{m}$ G  $\alpha$  $\mathbf{B}$ G  $\simeq$ 

TIME

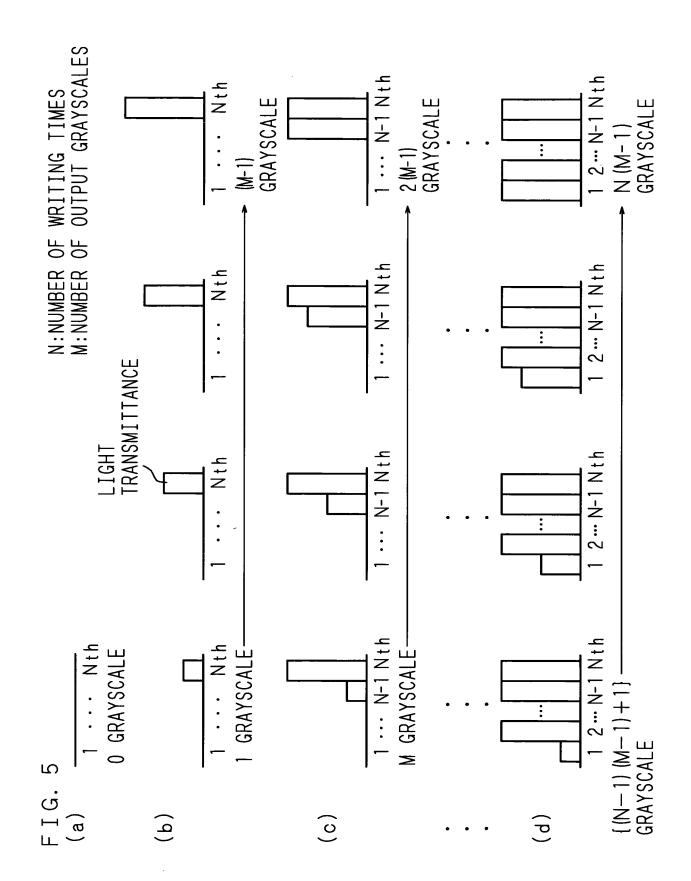
(b) ON TIMING OF BACK-LIGHT LIQUID CRYSTAL DISPLAY DEVICE Nov 25, 2003 Yoshihara et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1100.68757 Sheet 3 of 18 (312) 360 0080



LIQUID CRYSTAL DISPLAY DEVICE Nov 25, 2003 Yoshihara et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1100.68757 Sheet 4 of 18 (312) 360 0080



LIQUID CRYSTAL DISPLAY DEVICE Nov 25, 2003 Yoshihara et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1100.68757 Sheet 5 of 18 (312) 360 0080



LIQUID CRYSTAL DISPLAY DEVICE Nov 25, 2003 Yoshihara et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1100.68757 Sheet 6 of 18 (312) 360 0080

FIG. 6A

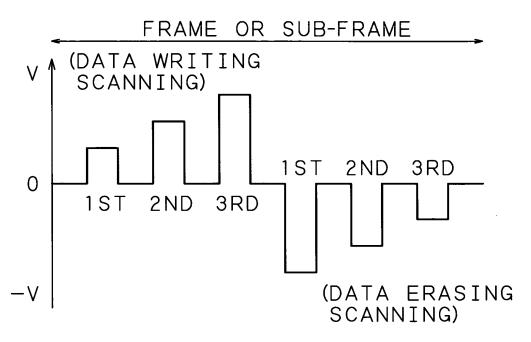
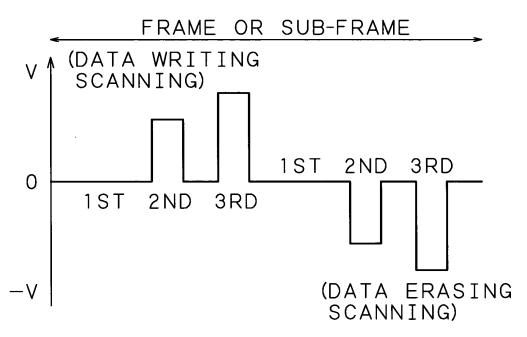
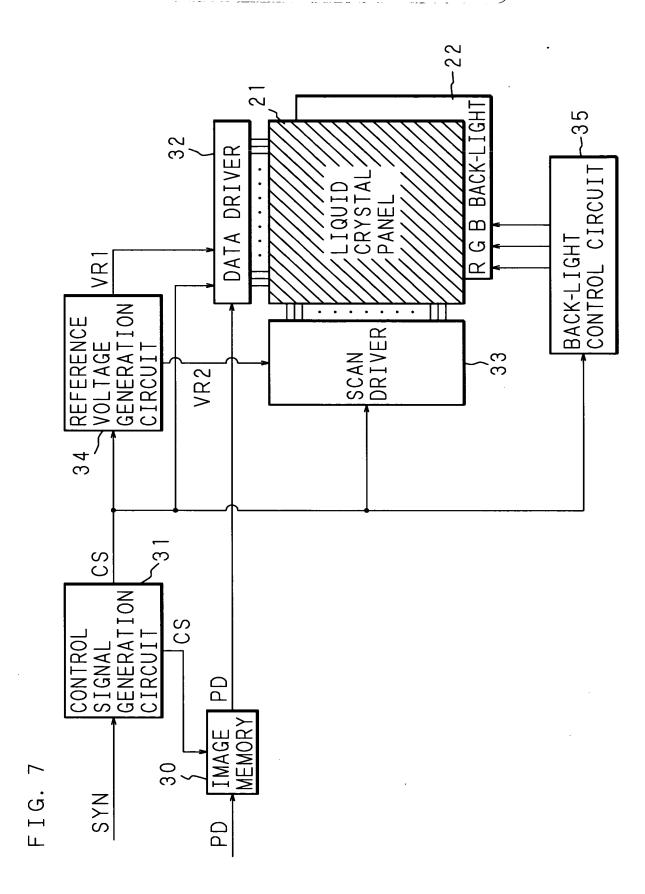


FIG. 6B





LIQUID CRYSTAL DISPLAY DEVICE Nov 25, 2003 Yoshihara et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1100.68757 Sheet 8 of 18 (312) 360 0080

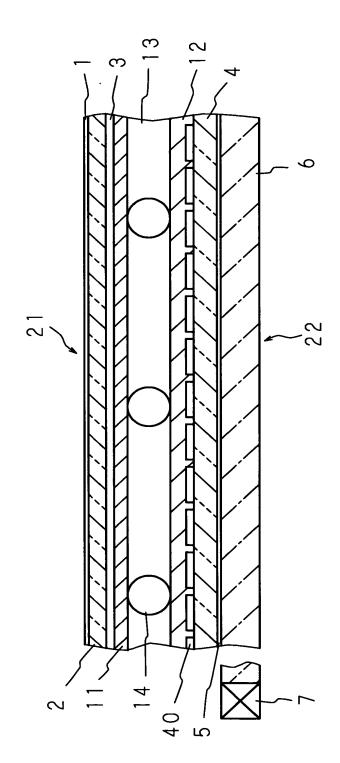
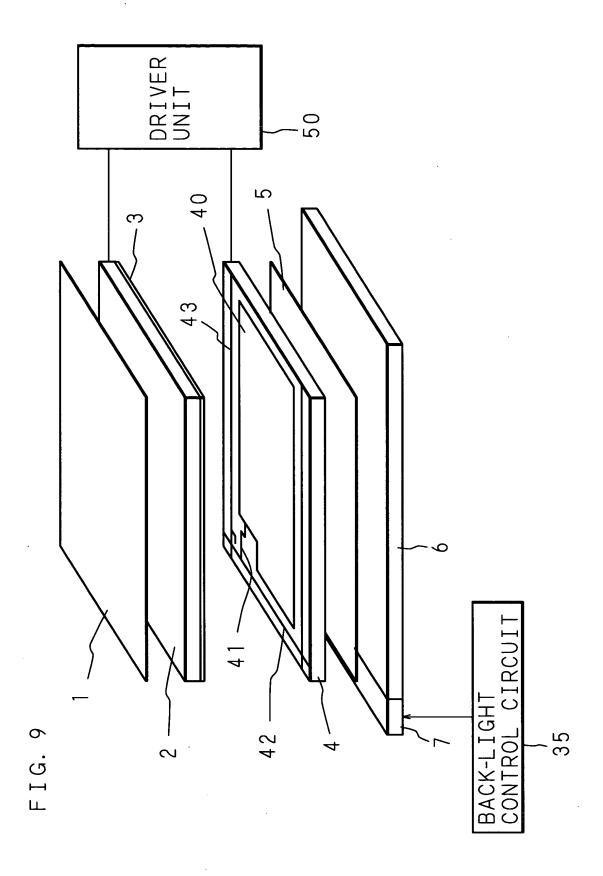


FIG. 8

LIQUID CRYSTAL DISPLAY DEVICE Nov 25, 2003 Yoshihara et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1100.68757 Sheet 9 of 18 (312) 360 0080



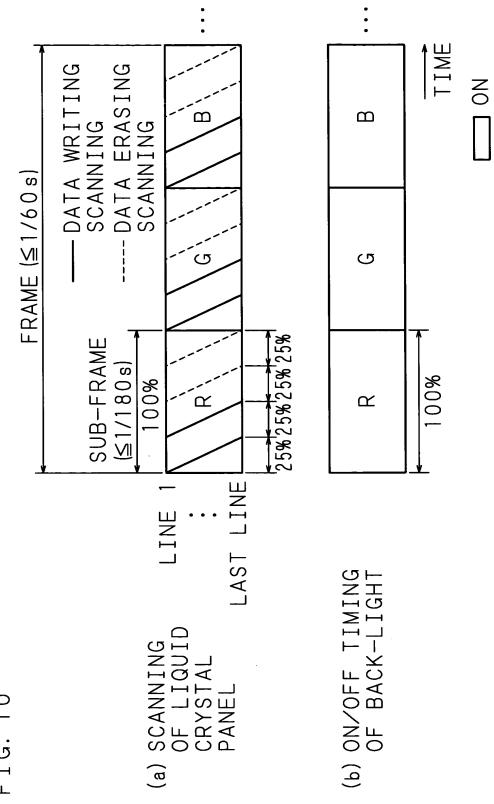
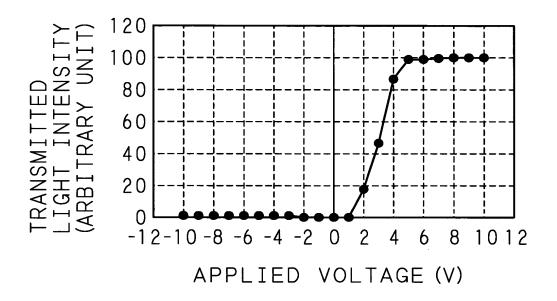
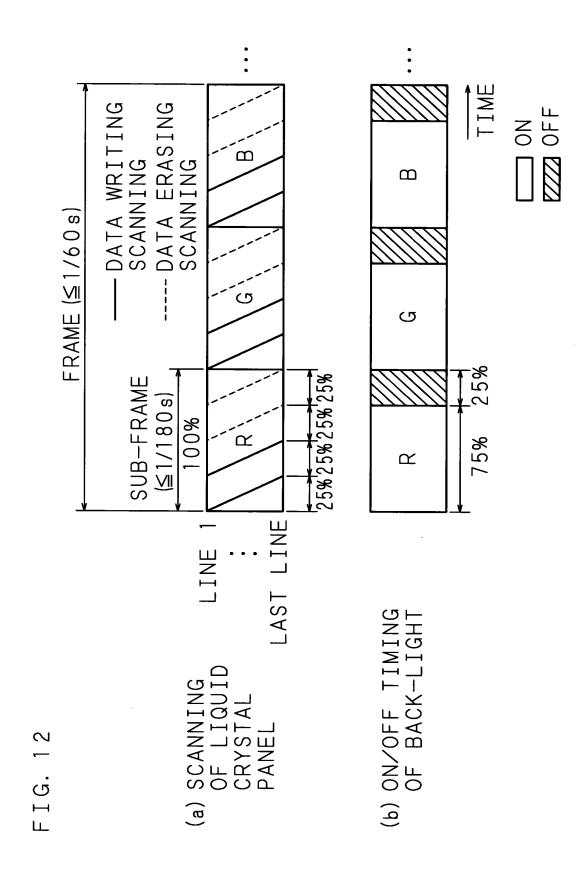


FIG. 10

LIQUID CRYSTAL DISPLAY DEVICE Nov 25, 2003 Yoshihara et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1100.68757 Sheet 11 of 18 (312) 360 0080

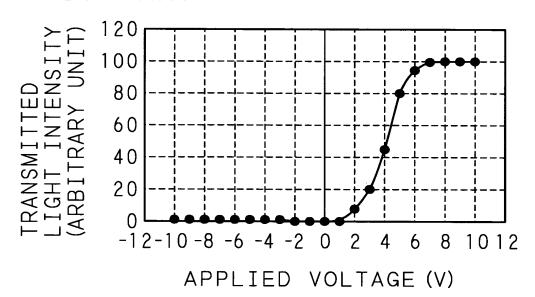
FIG. 11





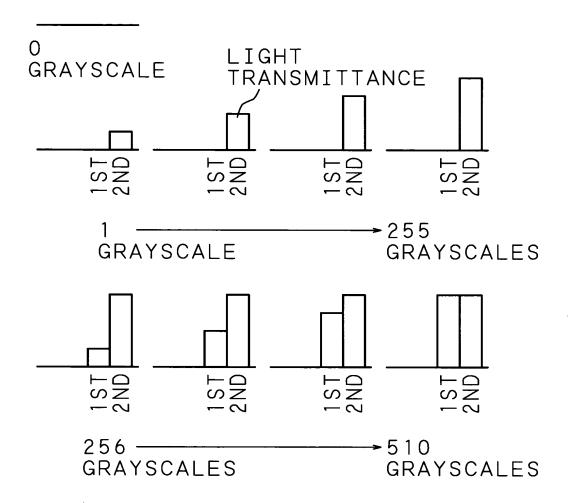
LIQUID CRYSTAL DISPLAY DEVICE Nov 25, 2003 Yoshihara et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1100.68757 Sheet 13 of 18 (312) 360 0080

FIG. 13 PRIOR ART

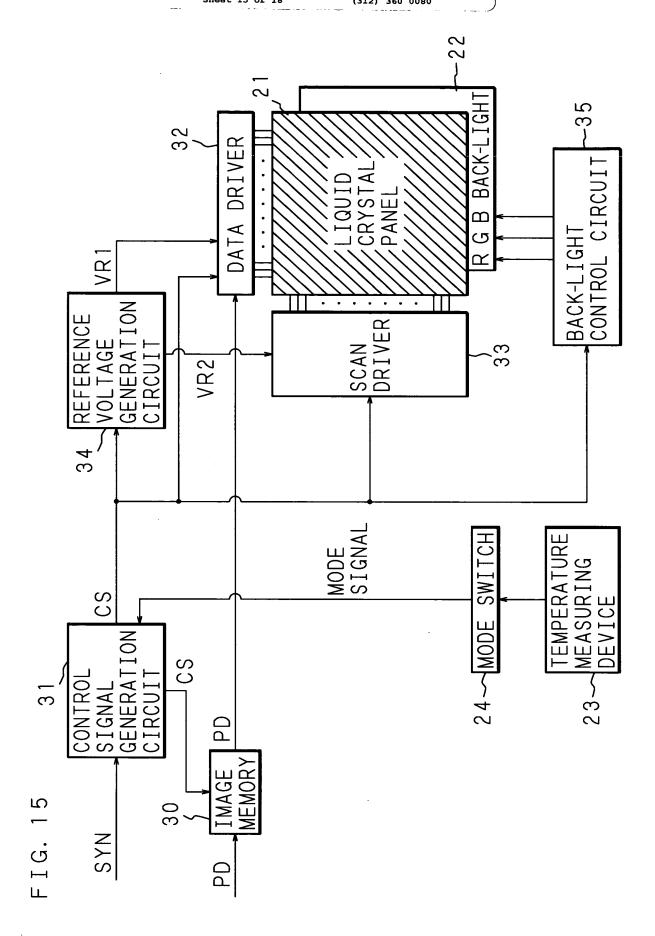


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FIG. 14



LIQUID CRYSTAL DISPLAY DEVICE Nov 25, 2003 Yoshihara et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1100.68757 Sheet 15 of 18 (312) 360 0080



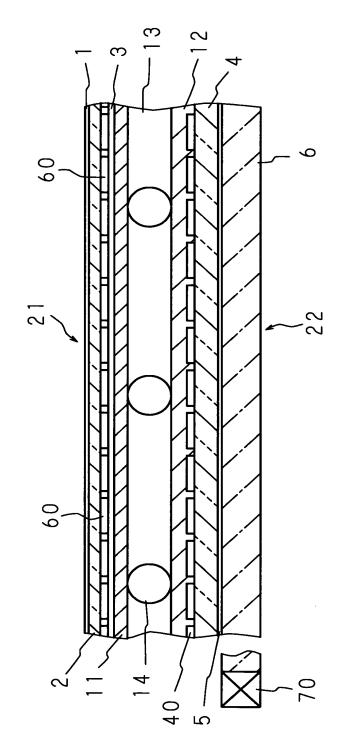


FIG. 1

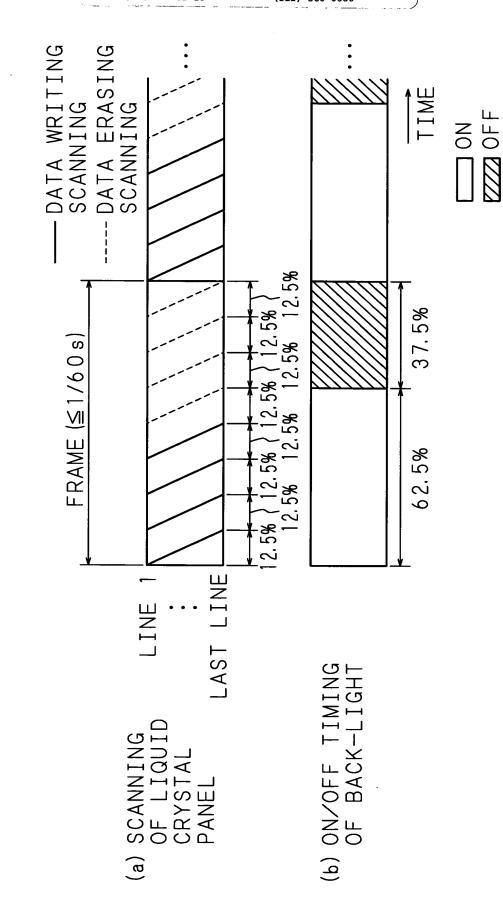
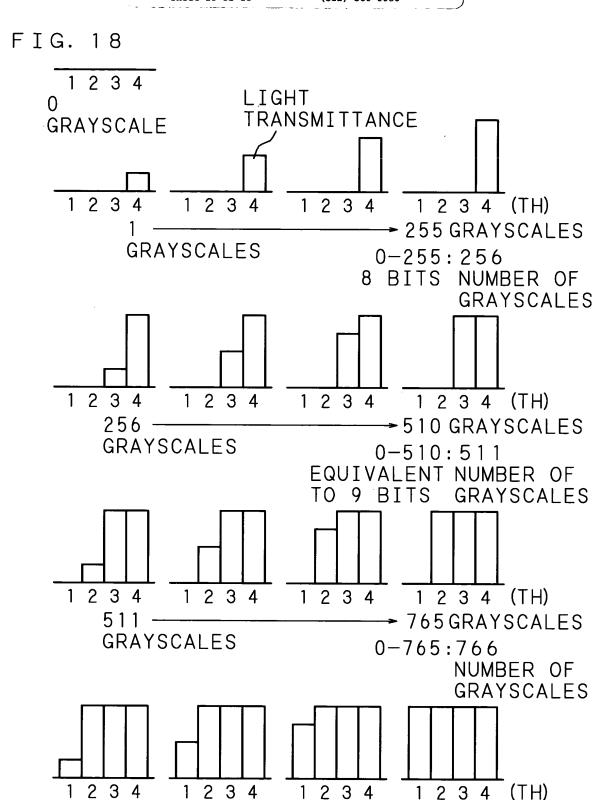


FIG. 17

LIQUID CRYSTAL DISPLAY DEVICE Nov 25, 2003
Yoshihara et al.
Greer, Burns & Crain, Ltd. (Patrick Burns)
Ref. No. 1100.68757
Sheet 18 of 18 (312) 360 0080



766

**GRAYSCALES** 

0-1020:1021 EQUIVALENT NUMBER OF TO 10 BITS GRAYSCALES

→ 1020 GRAYSCALES